



# How to Apply Thermal Paste

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## INTRODUCTION

Application of thermal paste is essential to keep the processor cool and happy. Follow this general guide to reapply thermal paste after removing a heat sink or CPU during a repair. For more advanced directions, specific to your CPU, check out Arctic Silver's page of [application methods](#).

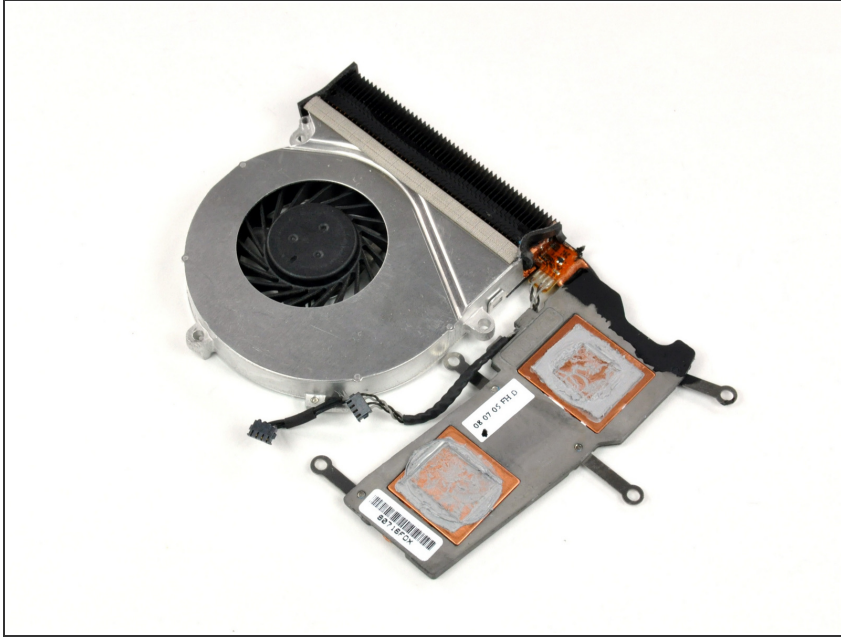
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### TOOLS:

- [Arctic Silver ArctiClean](#) (1)
  - [Arctic Silver Thermal Paste](#) (1)
  - [Coffee Filters or a lint-free cloth](#) (1)
  - [Spudger](#) (1)
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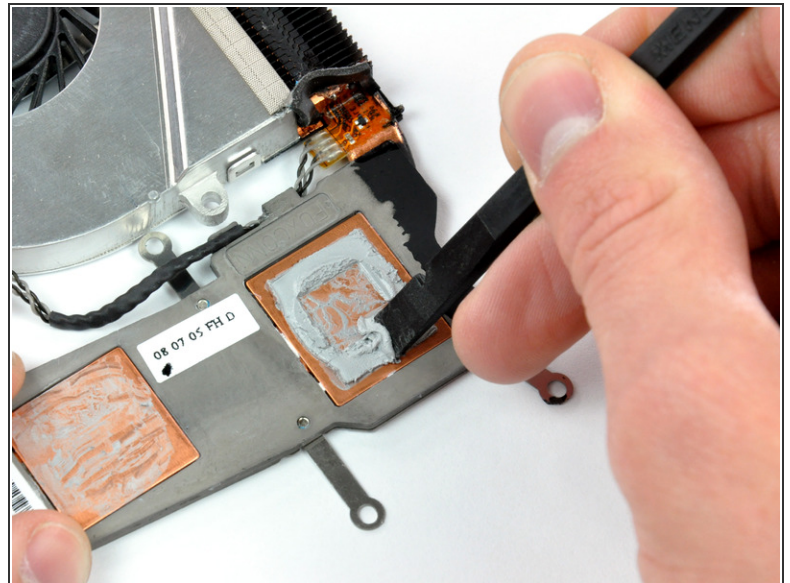
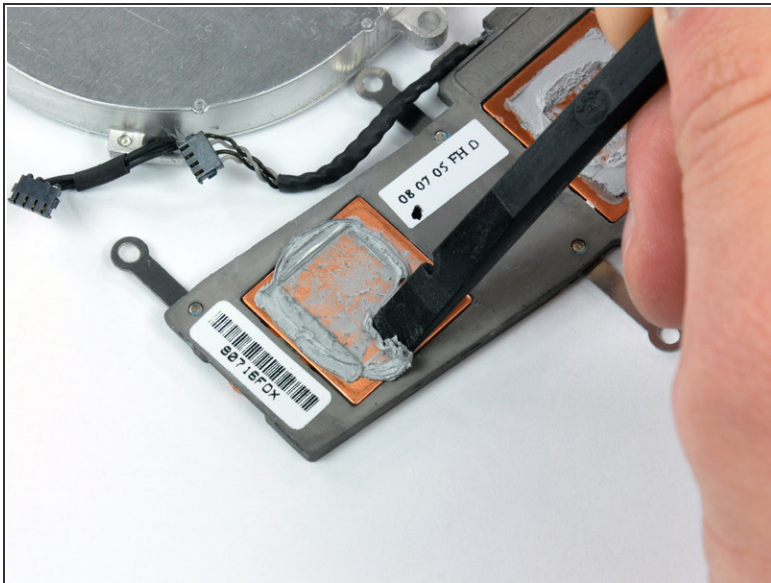
## Step 1 — How to Apply Thermal Paste



**⚠** Thermal paste is responsible for conducting heat from the processor to the heat sink. Reassembling a computer without applying thermal paste will cause the processor to overheat, resulting in permanent damage.

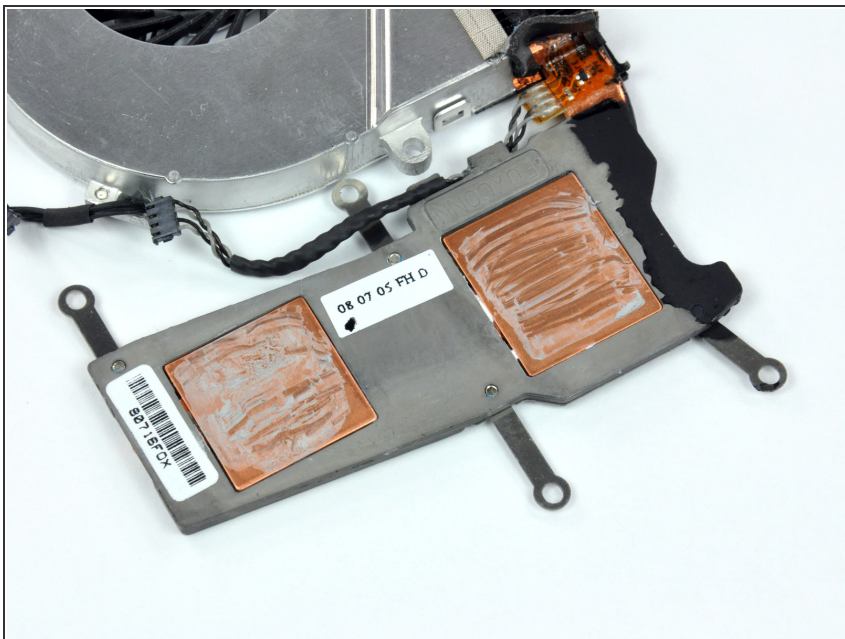
**i** Before applying a new layer of thermal paste, you must first remove any old thermal paste from both the processor surface and the heat sink.

## Step 2



- Use the flat end of a spudger to scrape off as much solidified thermal paste from the copper core(s) of the heat sink as possible.

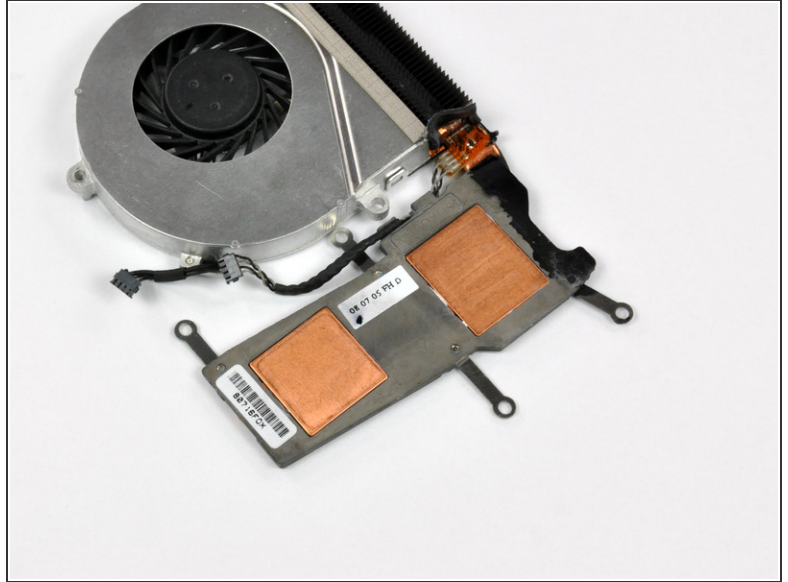
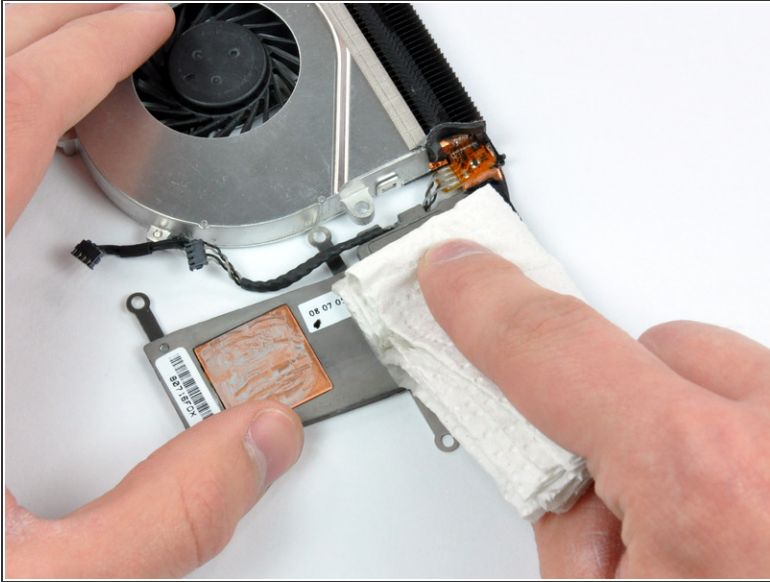
## Step 3



**i** After scraping off the solidified thermal paste, a residue is still present on the copper core(s).

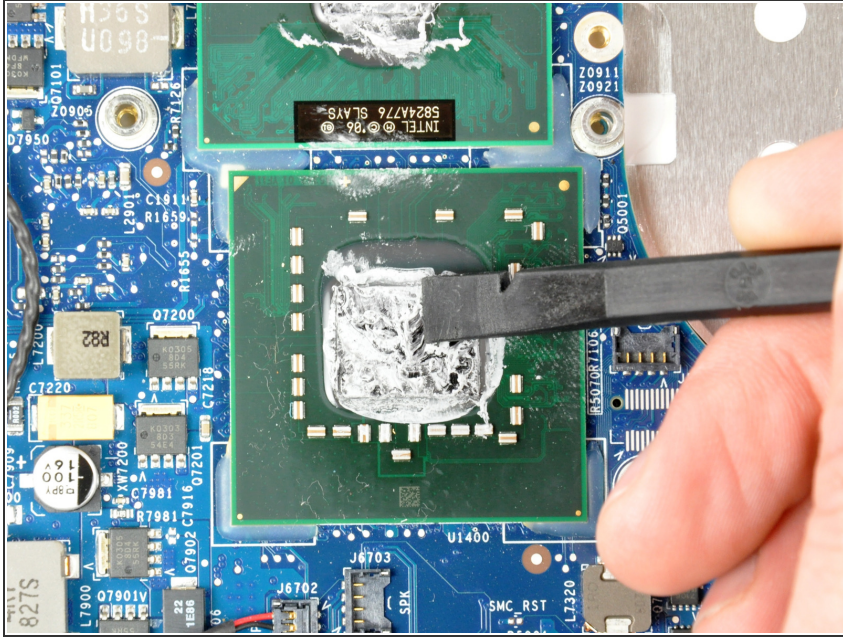


## Step 4



- Use a coffee filter or a lint-free cloth with a drop of ArctiClean Thermal Material Remover to clean the thermal paste residue off the thermal contact surface of your heat sink.
- Once the surface is clean, use a new coffee filter or cloth to apply a drop of ArctiClean Thermal Surface Purifier to remove any oils and prepare the surface.
- Do not touch either the chip or the heatsink, or allow any dust or debris to get on them. Even a fingerprint can be a major obstacle to thermal transfer on a chip.
- Allow the heat sink(s) to dry completely!

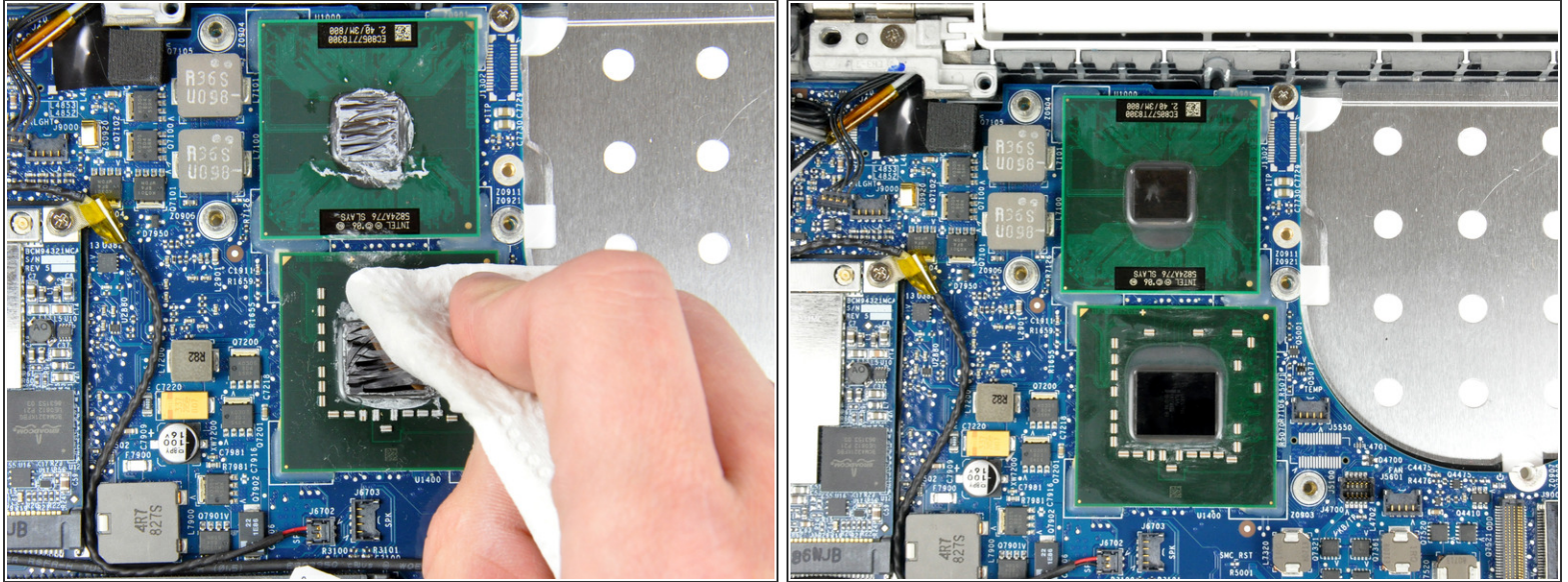
## Step 5



- Use the flat end of a plastic spudger to remove any solidified thermal paste from the surface of the processor(s).

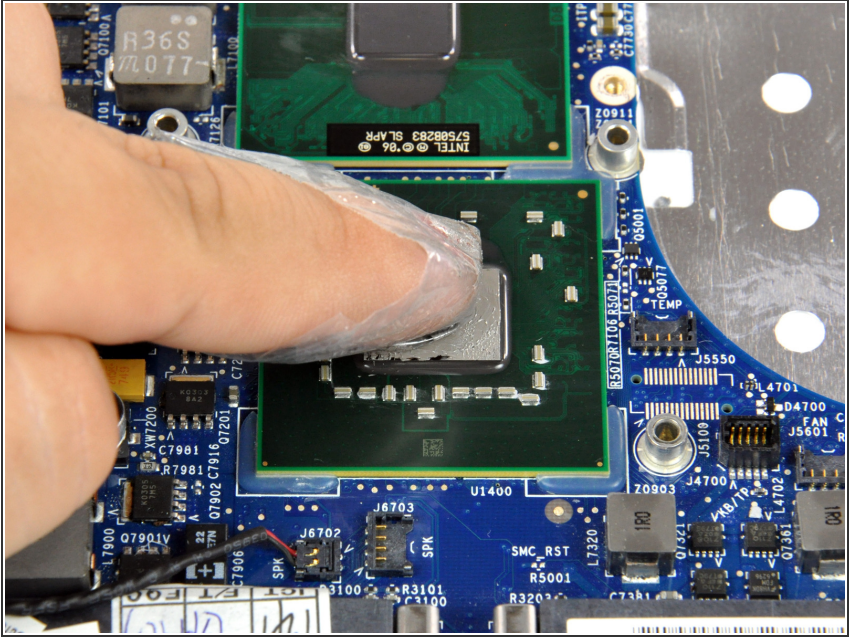
⚠ Do not use any metal objects for this procedure. Be careful not to break any components on the processor's surface, or get any thermal compound loose on any components (conductive pastes could cause problems).

## Step 6



- Again, use a coffee filter or lint-free cloth and a drop of ArctiClean Thermal Material Remover to clean any thermal paste residue off the processor surface.
- Use a new coffee filter or cloth to apply a drop of ArctiClean Thermal Surface Purifier to remove any oils and prepare the surface.
- Allow the processor(s) to dry completely!





- Wrap the tip of your index finger with a piece of plastic (such as a sandwich bag or Saran wrap).
- Dispense a very small amount of thermal paste onto processor core(s).
- Use your finger to gently smear the thermal paste over the entire processor core(s).
- ❗ If you accidentally apply a small amount of thermal paste on the green surface of the processor, it will not cause any harm.
- The processor(s) is now ready for heat sink installation.
- ❗ You do not need to apply any thermal paste on the heat sink(s), although [Arctic Silver gives instructions](#) on "tinting" the heat sink to reduce the break-in time of the thermal compound.

To reassemble your device, follow these instructions in reverse order.